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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/591,306	06/06/2007	Raphael Frans Caers	2005M014	9215	
23455 EXXONMODI	23455 7590 12/21/2007 EXXONMOBIL CHEMICAL COMPANY			EXAMINER	
5200 BAYWAY DRIVE			WITHERSPOON, SIKARL A		
P.O. BOX 2149 BAYTOWN, TX 77522-2149			ART UNIT	PAPER NUMBER	
,			1621		
		•	MAIL DATE	DELIVERY MODE	
			12/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/591,306	CAERS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sikarl A. Witherspoon	1621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 29 Ju	ne 2007.					
•	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>01 September 2006</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
•	•	•				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P					
 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/29/07. 	6) Other:	asons Application				
-						

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9 and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 9 and 10 provide for the use of a propylene-containing stream in a hydroformylation reaction, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 9 and 10 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vora et al (US 5,714,662) and Bahrmann et al (US 5,808,168) in combination.

The instant claims are drawn to a process for making a hydroformylation product by contacting an oxygenate with a molecular sieve catalyst to form an olefin composition, separating a propylene stream therefrom, and contacting the propylene stream with a rhodium catalyst to form a hydroformylation product.

Vora et al teach a method for producing an olefin composition containing ethylene, propylene, among other light olefins, by contacting an oxygenate, specifically methanol, with a molecular sieve catalyst (abstract; col. 15, line 15 to col. 17).

The major difference between Vora et al and the instant claims is that Vora et al do not expressly teach hydroformylation of the light olefin(s) produced in the oxygenate conversion process taught therein. However, Bahrmann et al teach the hydroformylation of an olefinically unsaturated compound, such as propylene, using a rhodium-containing catalyst, to produce the corresponding aldehyde(s) (col. 5, lines 15-55).

The instant claims are therefore rendered obvious in view of the combined reference teachings, because Vora et al teaches the production of the olefinic starting material by an oxygenate conversion, and it would have been obvious to employ the hydroformylation process taught by Bahrmann et al to convert the light olefin(s) made

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by Vora et al to the corresponding n-aldehyde and/or i-aldehyde, which well established utility.

Claims 11-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over

The instant claims are drawn to a composition comprising propylene, ethylene, and dimethyl ether.

Vora et al teach such a composition being made via an oxygenate conversion process (abstract; table 3).

The difference between Vora et al and the instant claims is that Vora et al do not teach the exact concentration of compounds that make up the composition in the instant claims. However, the instant claims are rendered obvious since a person having ordinary skill in the art would have been able to modify the concentration of the components by way of the distillations taught by Vora et al in order to arrive at a composition having a concentration of individual components desirable based on the intended use of said composition.

Claim Objections

Claims 5, 7, 8, 14, and 16-18 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to another claim in the alternative only and should not depend from another multiple dependent claim. See MPEP § 608.01(n).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sikarl A. Witherspoon whose telephone number is 571-272-0649. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Sikarl A. Withurforn-SIKARL A. WITHERSPOON PRIMARY EXAMINER